wherein the polarities of the voltage signals of the output terminal pair of said amplifier between the period of said first signal and the period of said second signal are of mutually opposite polarities.

The invention according to Claim 9 can cancel the input offset voltage of the amplifier with a simple circuit and can latch the input voltage at the timing when the second phase ends so as to output a constant digital value of 0 or 1.

The invention according to Claim 10 of the present invention is a magnetic field sensor according to Claim 8 or 97, characterized in that predetermined voltage of said comparator varies depending on the output signal of said latch circuit.

The invention according to Claim 10 can extract from a comparator, a signal which is stable against noise signals and of which the chattering is suppressed by providing the reference value set for the judgment by the comparator with a hysteresis. By giving this signal to a latch circuit, a stable signal which has a high judgment precision can be extracted from the latch circuit.

Though the novel characteristics of the invention are nothing more than the particular description in the attached claims, the present invention with respect to both the configuration and the contents, together with other purposes or characteristics, will be better understood and evaluated by

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